

1.

$$z = \frac{1 + ix}{1 - ix} \implies |z| =$$

2.

$$(2 - i) \cdot z = 1 - \bar{z} \implies z =$$

3.

$$z = \frac{3 - 2i}{1 - i} \implies \Im(z) =$$

4.

$$(1 + i)(1 + i^3)(1 + i^6) =$$

5.

$$(1 + i)^5 + (1 - i)^5 =$$

6.

$$z = -\frac{3\sqrt{3}}{2} - \frac{3}{2}i \implies \text{In Polarform: } z =$$

7.

$$z = 3 + 2i \implies \left(\frac{z + \bar{z}}{z - \bar{z}} \right)^4 =$$